SA-VE702/VE705/ **WMS7/SS-MS7**

SERVICE MANUAL

Ver 1.1 2002. 10

The SA-VE702 system consists of one unit of SA-WMS5 and two units of SS-MS7. The SA-VE705 system consists of one unit of SA-WMS7 and five units of SS-MS7.



US Model Canadian Model SA-VE705/WMS7/SS-MS7

AEP Model UK Model E Model

Photo: SA-WMS7 Photo: SS-MS7

SPECIFICATIONS

AUDIO POWER SPECIFICATIONS:

US model

POWER OUTPUT AND TOTAL HARMONIC DISTORTION:

with 8 Ω loads, both channels driven, from 20 - 150Hz; rates 120 W per channel minimum RMS power, with no more than 0.8% total harmonic distortion from 250 mW to rated

SS-MS7 (front, center, and rear speakers)

Speaker system 2 way, magnetically shielded

Speaker units

Tweeter: 1.9 cm (3/4 in.), dome type Woofer: 5 cm (2 in.)× 2, balanced drive

type Bass reflex

Enclosure type Rated impedance 8.0 Power handling capacity Maximum input power: 140 W

87 dB (1W, 1m) Sensitivity level 120 Hz - 40 000 Hz Frequency range

Dimensions (w/h/d)

When attached speaker grilles:

Approx. $86 \times 169 \times 130 \text{ mm}$ $(3^{1/2} \times 6^{3/4} \times 5^{1/8} \text{ in.})$ each

When attached to supplied speaker stand:

Approx. $96 \times 207 \times 141 \text{ mm}$ $(3^{7}/8 \times 8^{1}/4 \times 5^{5}/8 \text{ in.})$ each (Front (and rear)speakers) Approx. $169 \times 131 \times 144 \text{ mm}$ $(6^3/4 \times 5^1/4 \times 5^3/4 \text{ in.}).$

(Center speaker: pointed upwards) Approx. 169 × 118 × 141 mm $(6^3/4 \times 4^3/4 \times 5^5/8 \text{ in.}),$ (Center speaker: pointed

downwards):

Mass

When attached speaker grilles:

Approx. 1.3 kg (2lb 14oz) each

When attached to supplied speaker stand:

Approx. 1.4 kg (3lb 1oz) each, (Front (and rear) speakers) Approx. 1.4 kg (3lb 1oz)(Center speaker)

SS-WMS7 (subwoofer)

System

Speaker system Active subwoofer, magnetically shielded

Woofer: 20 cm (8 in.), Speaker unit

cone type

Advanded SAW type Enclosure type

Practical maximum output

120 W Reproduction frequency range

24 Hz - 150 Hz

LINE IN (input pin jack) SPEAKER IN (input terminals)

Outputs

LINE OUT (output pin jack) SPEAKER OUT (output terminals)

General

Power requirements

120 V AC, 60 Hz USA and Canada: 220 - 230 V AC, 50/60 Hz Europe: 220 - 240 V AC, 50/60 Hz Others: Power consumptions 80 W

Dimensions (w/h/d) Approx. $230 \times 380 \times 470 \text{ mm}$ $(9^{1}/8 \times 15 \times 18^{5}/8 \text{ in.})$, including

front grille

Mass Approx. 17 kg

(37 lb 8oz)

Supplied accessories

SA-VE705

Speaker stands (for the front and rear speakers) (4)

Speaker stand (for the center speaker) (1) Screws (for the speaker stands) (10) Washers (for the speaker stands) (10)

Brackets (for the front and rear speaker stands) (4)

Speaker grilles (5)

Audio connecting cord (1)

Speaker connecting cords, 2.5 m(8 ft21/2 in.) (5)

Speaker connecting cords, 10 m(32 ft93/4 in.) (2)

SA-VE702

Speaker stands (for the front speakers) (2) Screws (for the speaker stands) (4) Washers (for the speaker stands) (4) Brackets (for the front speaker stands) (2) Speaker grilles (2)

Audio connecting cord (1)

Speaker connecting cords, 2.5 m(8 ft21/2 in.) (4)

Design and specifications are subject to change without notice

MICRO SATELLITE SYSTEM

9-928-978-12 **Sony Corporation** 2002J1600-1 **Home Audio Company**

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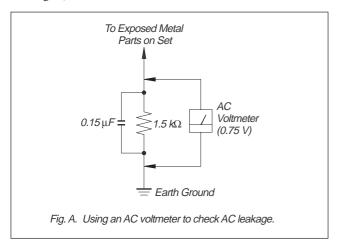
SAFETY CHECK-OUT

After correcting the original service problem, perform the following safety checks before releasing the set to the customer: Check the antenna terminals, metal trim, "metallized" knobs, screws, and all other exposed metal parts for AC leakage. Check leakage as described below.

LEAKAGE

The AC leakage from any exposed metal part to earth ground and from all exposed metal parts to any exposed metal part having a return to chassis, must not exceed 0.5 mA (500 microamperes). Leakage current can be measured by any one of three methods.

- A commercial leakage tester, such as the Simpson 229 or RCA WT-540A. Follow the manufacturers' instructions to use these instruments.
- 2. A battery-operated AC milliammeter. The Data Precision 245 digital multimeter is suitable for this job.
- 3. Measuring the voltage drop across a resistor by means of a VOM or battery-operated AC voltmeter. The "limit" indication is 0.75 V, so analog meters must have an accurate low-voltage scale. The Simpson 250 and Sanwa SH-63Trd are examples of a passive VOM that is suitable. Nearly all battery operated digital multimeters that have a 2V AC range are suitable. (See Fig. A)



SAFETY-RELATED COMPONENT WARNING!!

COMPONENTS IDENTIFIED BY MARK \triangle OR DOTTED LINE WITH MARK \triangle ON THE SCHEMATIC DIAGRAMS AND IN THE PARTS LIST ARE CRITICAL TO SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY.

ATTENTION AU COMPOSANT AYANT RAPPORT À LA SÉCURITÉ!

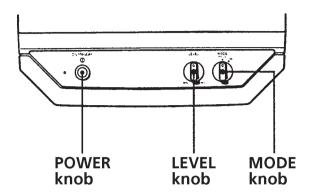
LES COMPOSANTS IDENTIFÉS PAR UNE MARQUE A SUR LES DIAGRAMMES SCHÉMATIQUES ET LA LISTE DES PIÈCES SONT CRITIQUES POUR LA SÉCURITÉ DE FONCTIONNEMENT. NE REMPLACER CES COMPOSANTS QUE PAR DES PIÈSES SONY DONT LES NUMÉROS SONT DONNÉS DANS CE MANUEL OU DANS LES SUPPÉMENTS PUBLIÉS PAR SONY.

SECTION 1 GENERAL

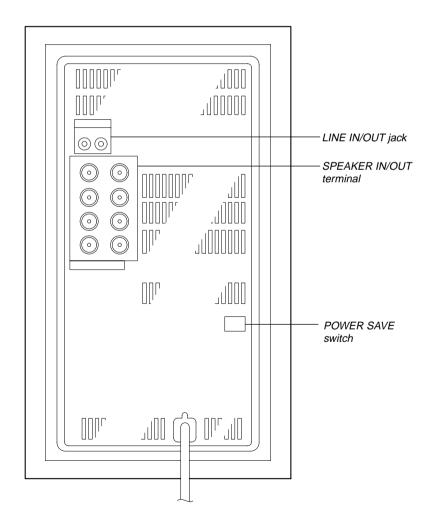
• Location of Controls

SA-WMS7

- Front view -



- Rear view -

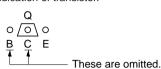


SECTION 2 DIAGRAMS

2-1. NOTE FOR PRINTED WIRING BOARDS AND SCHEMATIC DIAGRAMS

Note on Printed Wiring Board:

- · : parts extracted from the component side.
- : Pattern from the side which enables seeing. (The other layers' patterns are not indicated.)
- Indication of transistor.



Note on Schematic Diagram:

- All capacitors are in μF unless otherwise noted. pF: μμF 50 WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in Ω and $^{1}/_{4}$ W or less unless otherwise specified.
- : nonflammable resistor.: panel designation.

Note: Note: The components identified by mark \triangle or dotted line with mark A are critical for safety. Replace only with part piéce portant le numéro number specified. spécifié.

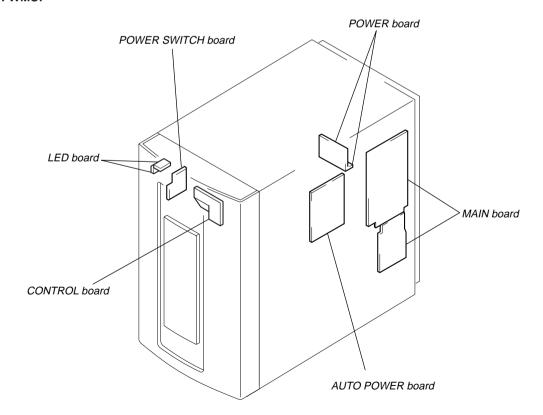
Les composants identifiés par une marque \triangle sont critiques pour la sécurité. Ne les remplacer que par une

• **B** + : B+ Line. • **B** - : B- Line.

- Voltages are dc with respect to ground under no-signal
- conditions. no mark: AUDIO
- Voltages are taken with a VOM (input impedance 10 $M\Omega$). Voltage variations may be noted due to normal production tolerances.
- · Signal path. : AUDIO

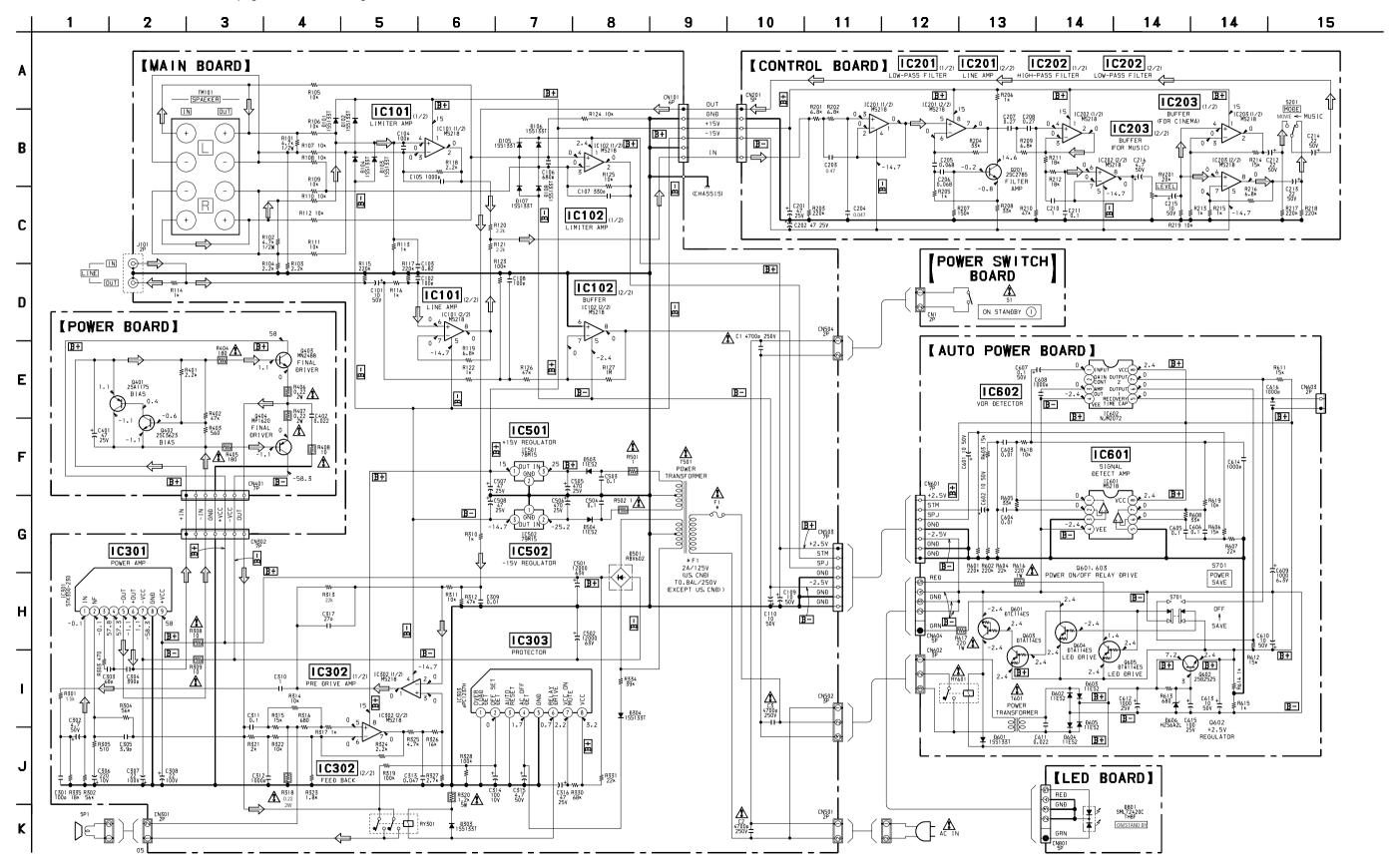
 Abbreviation CND: Canadian

• Circuit Boards Location SA-WMS7



3 3

2-2. SCHEMATIC DIAGRAM • See page 7 for IC Block Diagrams.

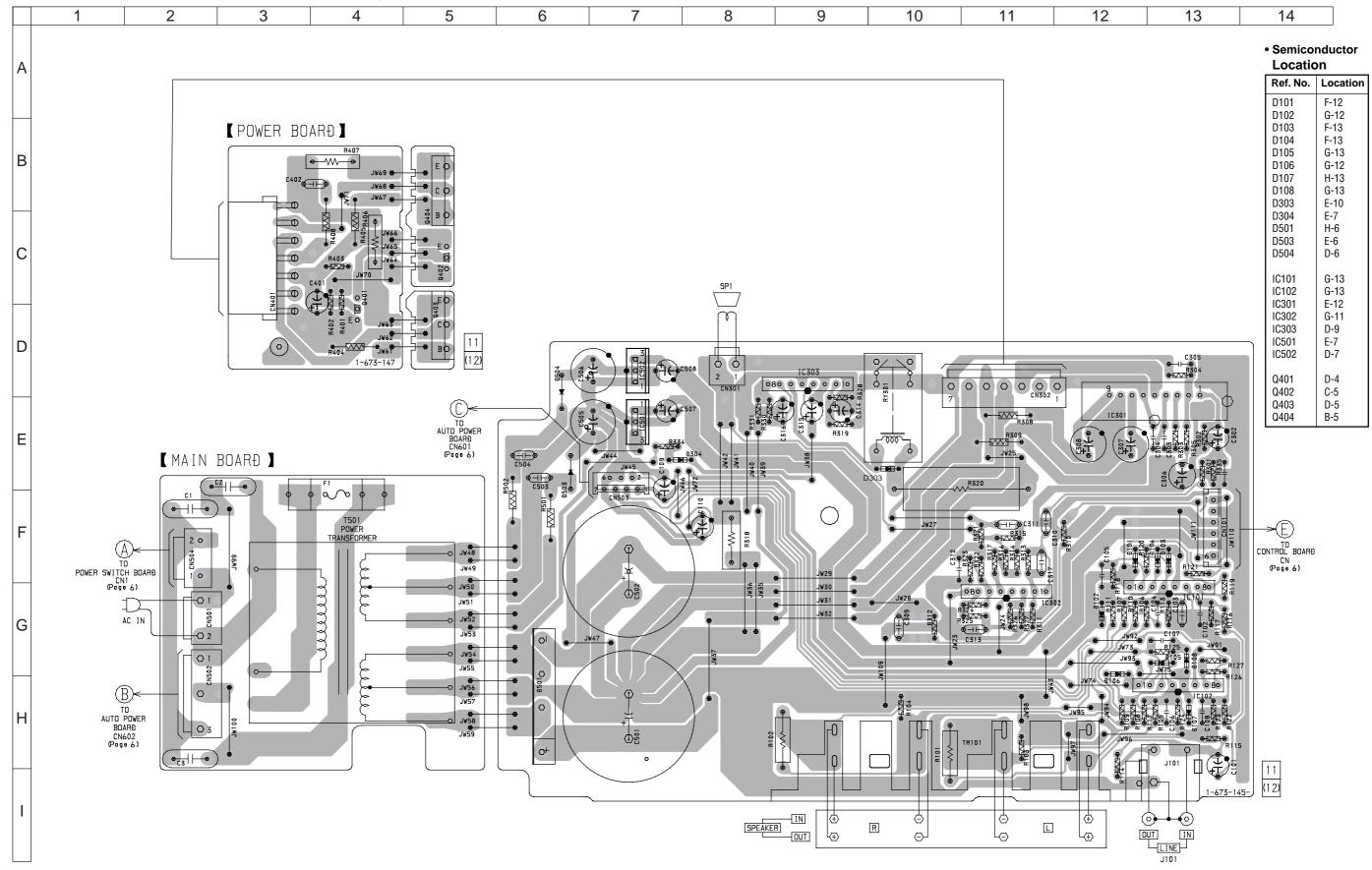


The components identified by mark A or dotted line with mark Replace only with part number specified.

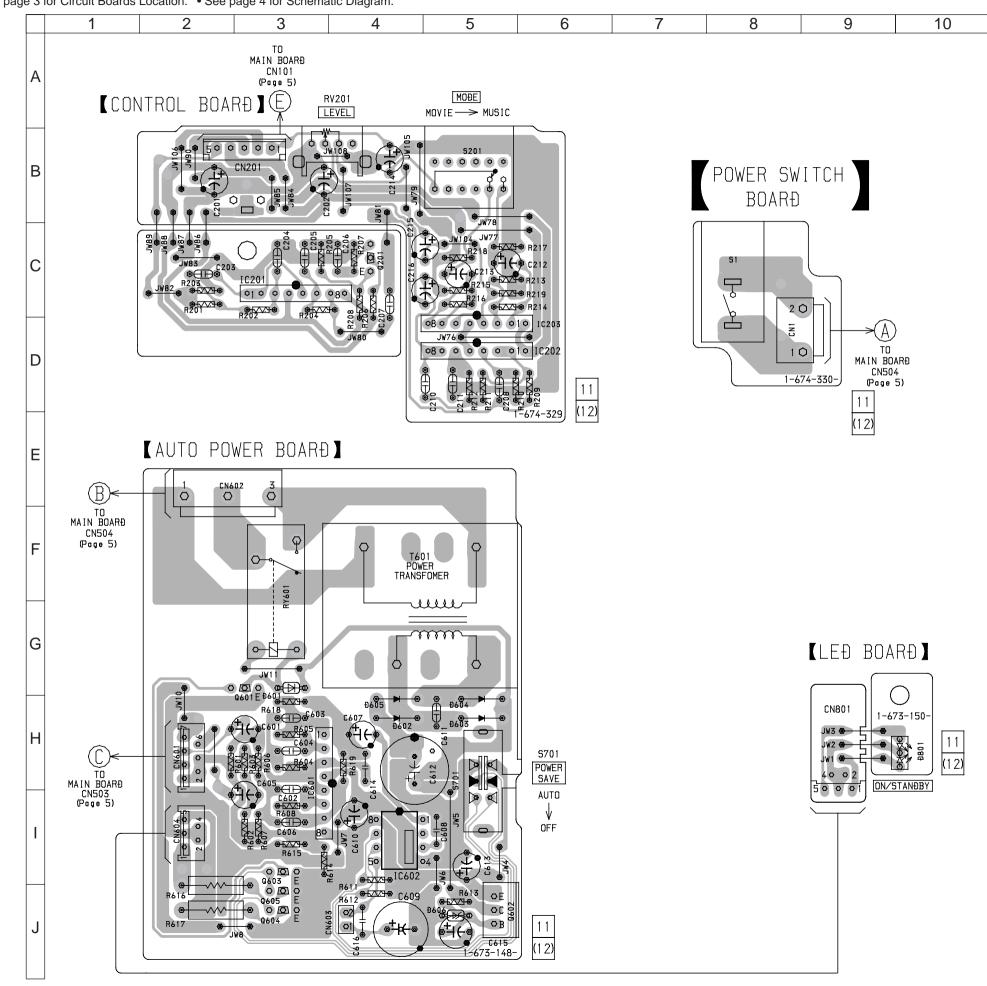
Les composants identifiés par une marque \triangle sont critiques pour la sécurité.

Ne les remplacer que par une pièce portant le numéro spécifié.

2-3. PRINTED WIRING BOARD MAIN SECTION • See page 3 for Circuit Boards Location.



2-4. PRINTED WIRING BOARD CONTROL SECTION • See page 3 for Circuit Boards Location. • See page 4 for Schematic Diagram.



D601 D602 H-4 D603 H-5 D604 H-5 D605 H-4 D606 J-5

• Semiconductor Location Ref. No.

Location

H-10 D801 IC201 C-3 IC202 D-5 IC203 D-5 IC601 H-3 IC602 1-4 Q201 C-4 Q601 G-3 Q602 J-5

1-3

J-3

J-3

Q603

Q604

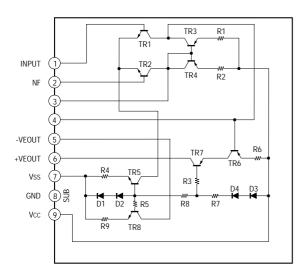
Q605

6

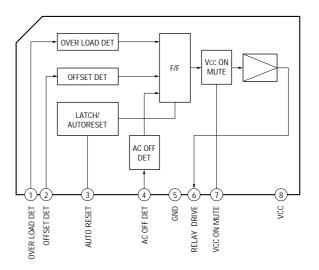
6

• IC Block Diagrams

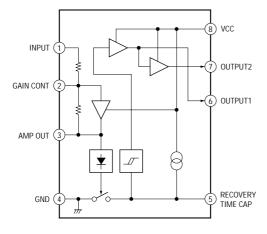
IC301 STK350-230 (MAIN Board)



IC303 µPC1237HA (MAIN Board)



IC602 NJM2072D (AUTO POWER Board)



SECTION 3 EXPLODED VIEWS

NOTE:

- -XX, -X mean standardized parts, so they may have some differences from the original one.
- Items marked "*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- The mechanical parts with no reference number in the exploded views are not supplied.

 Hardware (# mark) list and accessories and packing materials are given in the last of this parts list.

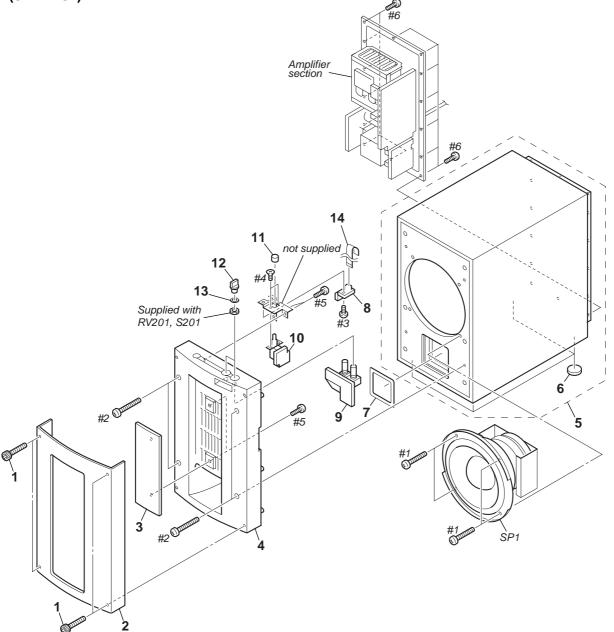
• Abbreviation

CND : Canadian model
G : German model
MY : Malaysia model
SP : Singapore model

The components identified by mark \triangle or dotted line with mark \triangle are critical for safety. Replace only with part number specified.

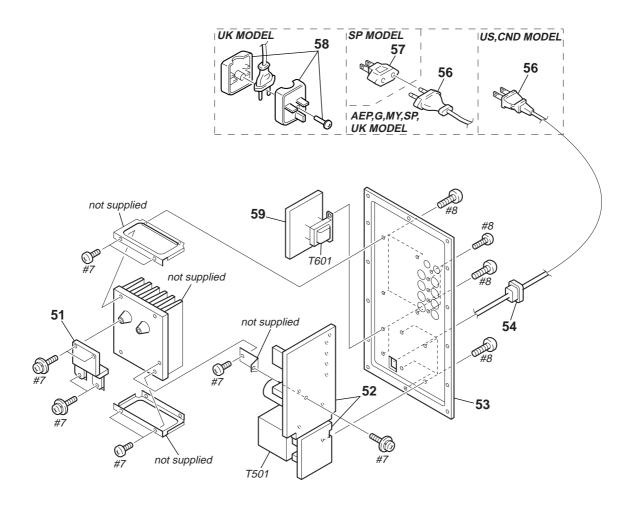
Les composants identifiés par une marque \triangle sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

(1) FRONT PANEL SECTION (SA-WMS7)



Ref. No.	Part No.	<u>Description</u>	<u>Remark</u>	Ref. No.	Part No.	<u>Description</u>	<u>Remark</u>
1	4-222-422-01	SCREW (4 × 16)		9	1-674-329-11	CONTROL BOARD	
2	4-220-858-01	PANEL(A), ORNAMENTAL		10	1-674-330-11	POWER SWITCH BOARD	
3	4-220-859-01	PANEL(B), ORNAMENTAL		11	4-973-938-31	KNOB(A), PUSH	
4	X-4951-887-1	PANEL ASSY, FRONT		12	4-999-482-11	KNOB(VOL)	
5	A-4411-710-A	CABINET ASSY, SPEAKER		13	4-217-642-01	SHEET	
6	4-981-864-01	FOOT		14	1-824-346-11	WIRE,FLAT TYPE 5P	
7	4-222-467-01	PACKING		SP1	1-529-513-11	SPEAKER	
8	1-673-150-11	LED BOARD					

(2) AMPLIFIER SECTION (SA-WMS7)



Ref. No.	Part No.	Description	<u>Remark</u>	Ref. No.	Part No.	Description	<u>Remark</u>
51	1-673-147-11	POWER BOARD		1	1-569-008-21	ADAPTOR, CONVERSION 2P (SP)	
52	A-4426-644-A	MAIN BOARD, COMPLETE		1 58 1 €	1-770-019-21	ADAPTOR, CONVERSION PLUG 3P (U	IK)
53	4-222-939-11	PANEL, REAR (US,CND)		59	A-4419-290-A	AUTO POWER BOARD, COMPLETE	
53	4-222-939-21	PANEL, REAR (AEP,G,UK,MY,SP)		 ∆ T501	1-433-726-11	TRANSFORMER, POWER (US,CND)	
* 54	3-703-244-00	BUSHING (2104), CORD		△ T501	1-433-728-12	TRANSFORMER, POWER (AEP,G,UK,M	ЛY,SP)
55	3-710-901-11	SCREW, TAPPING		 ∆ T601	1-433-731-11	TRANSFORMER, POWER (US,CND)	
 ∆56	1-769-744-11	CORD, POWER (AEP,G,UK,MY,SP)		 ∆T601	1-433-732-11	TRANSFORMER, POWER (AEP,G,UK,N	ЛY,SP)
1 56 €	1-783-531-11	CORD, POWER (US,CND)					

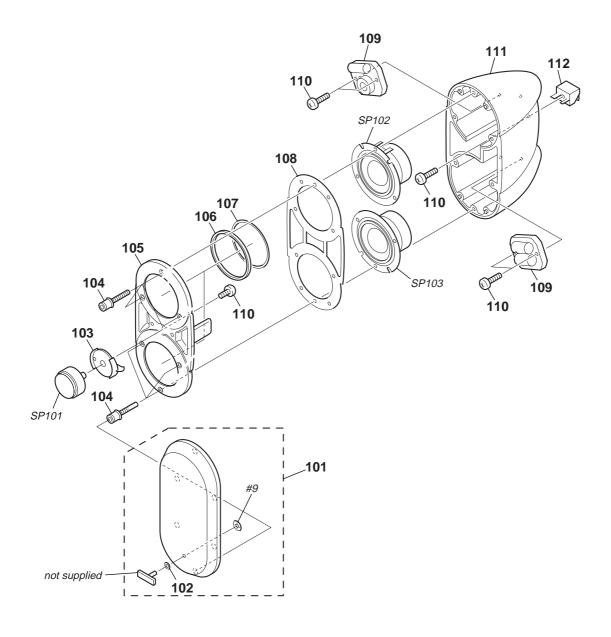
The components identified by mark \triangle or dotted line with mark \triangle are critical for safety. Replace only with part number

specified.

Les composants identifiés par une marque \triangle sont critiques pour la sécurité.

Ne les remplacer que par une pièce portant le numéro spécifié.

(3) SS-MS7



Ref. No.	Part No.	<u>Description</u>	<u>Remark</u>	Ref. No.	Part No.	<u>Description</u>	<u>Remark</u>
101	X-4951-883-1	FRAME ASSY, GRILLE		109	1-761-265-11	MOUNTED PC BOARD (NETWORK)	
102	3-701-436-21	WASHER POLYEHTHYLENE		110	4-986-971-11	SCREW (3.5)	
103	4-220-786-01	BASE, TW		111	4-220-780-01	CABINET	
104	4-220-784-01	SCREW, ORNAMENTAL		112	1-694-516-11	TERMINAL, SPEAKER	
105	4-220-779-01	PANEL, FRONT		SP101	1-529-291-11	SPEAKER (2.5cm)	
106	4-220-781-01	RING		SP102	1-529-290-11	SPEAKER (5cm)	
107	4-222-663-01	PACKING		SP103	1-529-290-11	SPEAKER (5cm)	
108	4-220-785-01	PACKING					

SECTION 4 ELECTRICAL PARTS LIST

AUTO POWER

CONTROL

NOTE:

- Due to standardization, replacements in the parts list may be different from the parts specified in the diagrams or the components used on the set.
- -XX, -X mean standardized parts, so they may have some difference from the original one.
- Items marked "*" are not stocked since they are seldom required for routine service.
 Some delay should be anticipated when ordering these items.
- Abbreviation

CND: Canadian model
SP: Singapore model
G: German model
MY: Malaysia model

- CAPACITORS: uF: μF
- RESISTORS

All resistors are in ohms.

METAL: metal-film resistor

METAL OXIDE: Metal Oxide-film resistor

F: nonflammable

• COILS uH: μH

When indicating parts by reference number, please include the board name.

SEMICONDUCTORS

In each case, u: μ , for example: uA...: μ A... , uPA... , μ PA... , uPB... , μ PC... , μ PC... ,

uPD..., μPD...

The components identified by mark \triangle or dotted line with mark \triangle are critical for safety. Replace only with part number specified.

Ne les remplacer que par une pièce portant le numéro spécifié.

MY : N	Malaysia model										
Ref. No.	Part No.	<u>Description</u>			<u>Remarks</u>	Ref. No.	Part No.	Description			Remarks
	A-4419-290-A	AUTO POWER BO	DARD COM	PI FTF				< TRANSISTOR	>		
	7. 1117 270 7.	*******	,					110111010101	•		
						Q601	8-729-029-66	TRANSISTOR I	DTC114ES		
		< CAPACITOR >				Q602	8-729-026-68	TRANSISTOR 2	2SD2525		
						Q603		TRANSISTOR I			
C601	1-126-964-11	ELECT	10uF	20%	50V	Q604		TRANSISTOR I			
C602	1-126-964-11		10uF	20%	50V	Q605	8-729-422-57	TRANSISTOR I	DTA114ES		
C603	1-162-306-11		0.01uF	20%	16V			DECICTOR			
C604 C605	1-162-306-11 1-164-159-11		0.01uF 0.1uF	20%	16V 50V			< RESISTOR >			
C003	1-104-139-11	CERAIVIIC	U. Tur		307	R601	1-247-887-00	CARRON	220K	5%	1/4W
C606	1-164-159-11	CERAMIC	0.1uF		50V	R602	1-247-887-00		220K	5%	1/4W
C607	1-126-956-91		0.1uF	20%	50V	R603	1-249-431-11		15K	5%	1/4W
C608	1-162-294-31	CERAMIC	0.001uF	10%	50V	R604	1-249-433-11		22K	5%	1/4W
C609	1-126-916-11	ELECT	1000uF	20%	6.3V	R605	1-249-435-11	CARBON	33K	5%	1/4W
C610	1-126-964-11	ELECT	10uF	20%	50V						
						R606	1-249-431-11		15K	5%	1/4W
C611	1-161-494-00		0.022uF		25V	R607	1-249-433-11		22K	5%	1/4W
C612	1-126-942-61		1000uF	20%	25V	R608	1-249-435-11		33K	5%	1/4W
C613	1-126-964-11		10uF	20%	50V	R611	1-249-431-11		15K	5%	1/4W
C614 C615	1-162-294-31 1-104-665-11		0.001uF 100uF	10% 20%	50V 25V	R612	1-249-431-11	CARBON	15K	5%	1/4W
C013	1-104-000-11	ELECT	TOOUF	20%	23V	R613	1-249-415-11	CADRON	680	5%	1/4W F
C616	1-162-294-31	CERAMIC	0.001uF	10%	50V	R614	1-249-417-11		1K	5%	1/4W F
00.0	02 27 . 0 .	02.0.000	0.00.14.	1070		R615	1-249-417-11		1K	5%	1/4W F
		< CONNECTOR >				 ∆ R616		METAL OXIDE	220	5%	1W
						 ⚠ R617	1-215-865-81	METAL OXIDE	220	5%	1W
CN601	1-568-439-11	SOCKET, CONNEC	CTOR 7P								
* CN602	1-564-687-11	PIN, CONNECTOR				R618	1-249-429-11		10K	5%	1/4W
* CN603	1-565-513-11	PIN, CONNECTOR				R619	1-249-429-11	CARBON	10K	5%	1/4W
CN604	1-569-315-11	SOCKET, CONNEC						DEL AV			
* CN605	1-565-514-11	SOCKET, CONNEC	JIUR 2P					< RELAY >			
		< DIODE >				RY601	1-755-276-11	RELAY, POWER			
		(DIODE)				1001	1 733 270 11	KLLM, I OWLK			
D601	8-719-991-33	DIODE 1SS133T	-77					< SWITCH >			
D602	8-719-200-82	DIODE 11ES2									
D603		DIODE 11ES2				S701		SWITCH, SLIDE			
D604		DIODE 11ES2				******	******	**********	******	******	******
D605	8-719-200-82	DIODE 11ES2									
5.0.		DIODE 1170/101					1-674-329-11	CONTROL BOAF			
D606	8-719-985-85	DIODE HZS6A2L	-					ale	·*		
		< IC >						< CAPACITOR >			
		(10)						CALACITOR >			
IC601	8-759-634-50	IC M5218AL				C201	1-104-664-11	ELECT	47uF	20%	25V
IC602		IC NJM2072D				C202	1-104-664-11		47uF	20%	25V
						C203	1-136-173-00	FILM	0.47uF	5%	50V
						C204	1-136-161-00	FILM	0.047uF	5%	50V
						C205	1-136-163-00	FILM	0.068uF	5%	50V

CONTROL LED MAIN

Dof No	Dort No	Description			Domarl	ر ما دما	Dof No	Dort No	Description			Domarko
Ref. No.	Part No.	<u>Description</u>			Remark	72	Ref. No.	Part No.	<u>Description</u>			<u>Remarks</u>
C206	1-136-163-00		0.068uF	5%	50V			1-673-150-11				
C207	1-136-170-00		0.27uF	5%	50V				*****			
C208	1-136-170-00		0.27uF	5%	50V				OONINGOTOD			
C210	1-136-177-00		1uF	5%	50V				< CONNECTOR >			
C211	1-136-165-00	FILM	0.1uF	5%	50V		CN801	1 540 200 11	SOCKET, CONNEC	יד ון חסדי	אר) בח	
C212	1-126-965-11	FLECT	22uF	20%	50V		CNOUT	1-309-299-11	SOCKLI, CONNEC	JOK (L III	-L) JF	
C212	1-126-965-11		22uF	20%	50V				< LED >			
C213	1-126-965-11		22uF	20%	50V				< LLD >			
C215	1-126-964-11		10uF	20%	50V		D801	8-710-061-31	LED SML724200	THRE (DOV	VED ON/	SAVE)
C216	1-126-963-11		4.7uF	20%	50V				*********			
0210	1-120-703-11	LLLOI	4.7ui	2070	30 V							
		< CONNECTOR >						A-4426-644-A	MAIN BOARD, CO	MPLETE		
									******	*****		
* CN201	1-564-520-11	PLUG, CONNECT	OR 5P									
								1-533-233-11	HOLDER, FUSE			
		< IC >										
									< CAPACITOR >			
IC201	8-759-634-50											
IC202	8-759-634-50						∆ C1	1-113-924-11		0.0047uF		250V
IC203	8-759-634-50	IC M5218AL					△ C2	1-113-924-11		0.0047uF	20%	250V
							∆ C3	1-113-924-11		0.0047uF	20%	250V
		< TRANSISTOR :	>				C101	1-126-964-11		10uF	20%	50V
0004		TD					C102	1-162-282-31	CERAMIC	100PF	10%	50V
Q201	8-729-178-55	TRANSISTOR 2	SC2785-E				0400	4 40/ 47/ 00	EU M	0.00 5	F0/	E01/
		DEGLOTOR					C103	1-136-176-00		0.82uF	5%	50V
		< RESISTOR >					C104	1-162-282-31		100PF	10%	50V
5004				=0.		_	C105	1-162-294-31		0.001uF	10%	50V
R201	1-249-427-11		6.8K	5%	1/4W		C106	1-162-292-31		680PF	10%	50V
R202	1-249-427-11		6.8K	5%	1/4W	+	C107	1-162-288-31	CERAMIC	330PF	10%	50V
R203	1-247-887-00		220K	5%	1/4W		0100	1 1/2 202 21	OFDANAIO	10005	100/	F0)/
R204	1-249-435-11		33K	5%	1/4W	_	C108	1-162-282-31		100PF	10%	50V
R205	1-249-417-11	CARBON	1K	5%	1/4W	F	C109	1-126-964-11		10uF	20%	50V
D20/	1 040 417 11	CADDON	11/	E0/	1/4/4/	_	C110	1-126-964-11		10uF	20%	50V
R206	1-249-417-11		1K	5%	1/4W	F	C301	1-162-282-31		100PF	10%	50V
R207	1-247-883-00		150K	5%	1/4W		C302	1-126-963-11	ELECT	4.7uF	20%	50V
R208	1-249-435-11		33K	5%	1/4W	_	0202	1 1/2 210 21	CEDANAIC	/ ODE	F0/	F0)/
R209 R210	1-249-427-11 1-249-437-11		6.8K 47K	5% 5%	1/4W 1/4W	F	C303 C304	1-162-219-31 1-162-289-31		68PF 390PF	5% 10%	50V 50V
K210	1-249-437-11	CARDON	4/K	376	1/4 VV		C304	1-162-269-31		3.9PF	10%	50V 50V
R211	1-249-432-11	CADDON	18K	5%	1/4W		C305	1-102-194-31		220uF	20%	10V
R211	1-249-432-11		18K	5%	1/4W		C300	1-128-560-11		220ur 22uF	20%	100V 100V
R213	1-249-417-11		1K	5%	1/4W	_	0307	1-120-300-11	LLLCI	ZZUI	2070	100 V
R214	1-249-431-11		15K	5%	1/4W	'	C308	1-128-560-11	ELECT	22uF	20%	100V
R214	1-249-431-11		15K	5%	1/4W	_	C309	1-130-483-00		0.01uF	5%	50V
1(213	1-247-417-11	CARDON	IIX	370	17700	۱ ا	C310	1-136-177-00		1uF	5%	50V
R216	1-249-427-11	CARRON	6.8K	5%	1/4W	F	C311	1-130-177-00		0.1uF	5%	50V
R217	1-247-887-00		220K	5%	1/4W	'	C311	1-162-294-31		0.1ul 0.001uF	10%	50V
R218	1-247-887-00		220K	5%	1/4W		0312	1 102 274 31	OLIVIIVIIO	0.00141	1070	30 0
R219	1-249-429-11		10K	5%	1/4W		C313	1-130-491-00	MYI AR	0.047uF	5%	50V
11217	1 217 127 11	OTTREON	1010	070	17 1 4 4		C314	1-104-665-11		100uF	20%	10V
		< VARIABLE RES	SISTOR >				C315	1-126-963-11		4.7uF	20%	50V
		* *************************************					C316	1-104-664-11		47uF	20%	25V
RV201	1-225-826-11	RES, VAR, CARB	ON 20K (LE	VEL)			C501	1-127-891-11		12000uF	20%	63V
		.,, 0,	(-/								
		< SWITCH >					C502	1-127-891-11	ELECT	12000uF	20%	63V
							C503	1-136-165-00		0.1uF	5%	50V
S201	1-771-632-11	SWITCH, ROTAR	Y (MODE)				C504	1-136-165-00		0.1uF	5%	50V
******		********	, ,	*****	******	*	C505	1-126-941-11		470uF	20%	25V
							C506	1-126-941-11		470uF	20%	25V
							C507	1-104-664-11	ELECT	47uF	20%	25V
							C508	1-104-664-11	ELECT	47uF	20%	25V

The components identified by mark Δ or dotted line with mark Δ are critical for safety. Replace only with part number specified.

Les composants identifiés par une marque \triangle sont critiques pour la sécurité.

pour la sécurité.
Ne les remplacer que par une pièce portant le numéro spécifié.

MAIN

Ref. No.	Part No.	<u>Description</u>			<u>Remarks</u>	Ref. No.	Part No.	<u>Description</u>			Remar	<u>'ks</u>
		< CONNECTOR >				R116	1-249-417-11	CARBON	1K	5%	1/4W	F
						R117	1-247-887-00	CARBON	220K	5%	1/4W	
* CN101	1-564-521-11	PLUG, CONNECT	OR 6P			R118	1-249-421-11		2.2K	5%	1/4W	F
* CN301		PIN, CONNECTOR				R119	1-249-427-11		6.8K	5%	1/4W	
* CN302		,				R120	1-249-421-11		2.2K	5%	1/4W	
CN501		PIN, CONNECTO									.,	-
* CN502		PIN, CONNECTO				R121	1-249-421-11	CARBON	2.2K	5%	1/4W	F
		,				R122	1-249-417-11	CARBON	1K	5%	1/4W	
CN503	1-568-439-11	SOCKET, CONNE	CTOR 7P			R123	1-249-441-11		100K	5%	1/4W	•
* CN504		PIN, CONNECTOR		BD) 3b		R124	1-249-429-11		10K	5%	1/4W	
011304	1 300 230 11	T IIV, CONNECTO	(1 0 00/1	110) 21		R125	1-249-429-11		10K	5%	1/4W	
		< DIODE >				1(123	1-247-427-11	CARDON	TOIX	370	17-7-00	
		\ DIODE >				R126	1-249-437-11	CAPRON	47K	5%	1/4W	
D101	0 710 001 33	DIODE 1SS133	г 77			R127	1-247-903-00		1M	5%	1/4W	
D101		DIODE 1SS133				R301	1-249-419-11		1.5K	5%	1/4W	F
D102		DIODE 1SS133				R302	1-249-438-11		56K	5%	1/4W	'
D103		DIODE 155133				R303	1-249-413-11		470	5%	1/4W	г
D104 D105						K303	1-249-413-11	CARBUN	470	5%	1/4 //	Г
טוט	8-719-991-33	DIODE 1SS133	1-//			D204	1 240 420 11	CADDON	EAV	E0/	1/4W	
D10/	0 710 001 22	DIODE 100122	r 77			R304	1-249-438-11		56K	5%		
D106		DIODE 188133				R305	1-249-442-11 1-247-688-11	CARBON	510	5%	1/4W	г
D107		DIODE 1SS133				⚠ R308			10	5%	1/4W	
D108		DIODE 1SS133				 ≜ R309	1-247-688-11		10	5%	1/4W	
D303		DIODE 1SS133				R310	1-249-417-11	CARBON	1K	5%	1/4W	ŀ
D304	8-719-991-33	DIODE 1SS133	I- <i> </i>				4.040.455	0.4.00.000	4011	=0.	a	
						R311	1-249-429-11		10K	5%	1/4W	
D501		DIODE RBV-602	<u>)</u>			R312	1-249-437-11	CARBON	47K	5%	1/4W	
D503		DIODE 11ES2				R313	1-249-433-11		22K	5%	1/4W	
D504	8-719-200-82	DIODE 11ES2				R314	1-249-429-11	CARBON	10K	5%	1/4W	
						R315	1-249-431-11	CARBON	15K	5%	1/4W	
		< FUSE >										
						R316	1-249-415-11	CARBON	680	5%	1/4W	
 Æ F1	1-532-501-31	FUSE (T0.8AL/25	OV)(AEP,G	,UK,MY,S	P)	R317	1-249-417-11	CARBON	1K	5%	1/4W	F
 Æ F 1	1-533-296-11	FUSE, GLASS CYI	LINDRICAL	(DIA.5)(2	A/125V)	 ⚠ R318	1-217-151-00	METAL	0.22	10%	2W	
					(US,CND)	R319	1-249-441-11	CARBON	100K	5%	1/4W	
						R320	1-216-505-51	METAL OXIDE	1.2K	5%	5W	F
		< IC >										
						R321	1-247-838-00	CARBON	2K	5%	1/4W	
IC101	8-759-634-50	IC M5218AL				R322	1-249-429-11	CARBON	10K	5%	1/4W	
IC102	8-759-634-50					R323	1-249-420-11	CARBON	1.8K	5%	1/4W	F
IC301		IC STK350-230				R324	1-249-421-11		2.2K	5%	1/4W	F
IC302		IC M5218AL				R325	1-249-425-11		4.7K	5%	1/4W	
IC303		IC uPC1237HA				11020	. 2	071112011		0,70	.,	•
						R326	1-247-860-11	CARBON	16K	5%	1/4W	
IC501	8-759-604-40	IC M5F78M15L				R327	1-249-422-11	CARBON	2.7K	5%	1/4W	F
IC502	8-759-604-46					R328	1-249-441-11		100K	5%	1/4W	•
10302	0 737 004 40	10 1001 77101132				R330	1-249-439-11		68K	5%	1/4W	
		< JACK >				R331	1-249-433-11		22K	5%	1/4W	
		< JACK >				1(331	1-247-433-11	CARDON	ZZIN	370	1/4 00	
J101	1-785-795-11	JACK, PIN 2P (LI	NE IN/OUT	1		R334	1-249-436-11	CAPRON	39K	5%	1/4W	
3101	1-100-170-11	JAON, I IN ZF (LI	IVE IIV/OUT	,		R335	1-249-430-11		18K	5%	1/4W	
		< RESISTOR >				ASSS	1-249-381-11		1	5%	1/4W	F
		· NEJIJIUN >				⚠ R501	1-249-381-11		1	5%	1/4W	
R101	1-260-107-11	CVDBON	1 7V	5%	1/2W	25 K302	1-247-301-11	CUIDON	1	J /0	1/4VV	1
R101 R102	1-260-107-11		4.7K 4.7K	5% 5%	1/2W 1/2W			, DELAW				
								< RELAY >				
R103	1-249-421-11		2.2K	5%	1/4W F	D\/204	1 515 000 11	DELAY (24)				
R104	1-249-421-11		2.2K	5%	1/4W F	RY301	1-515-920-11	RELAY (24V)				
R105	1-249-429-11	CARBON	10K	5%	1/4W			TEDAMAIAI				
5407		0.1.0.0.1.	401/	=0.				< TERMINAL >	•			
R106	1-249-429-11		10K	5%	1/4W							
R107	1-249-429-11		10K	5%	1/4W	TM101						
R108	1-249-429-11		10K	5%	1/4W	******	**********	*********	*******	******	*****	*
R109	1-249-429-11		10K	5%	1/4W							
R110	1-249-429-11	CARBON	10K	5%	1/4W							
R111	1-249-429-11		10K	5%	1/4W							
R112	1-249-429-11	CARBON	10K	5%	1/4W							
R113	1-249-417-11	CARBON	1K	5%	1/4W F	_						
R114	1-249-417-11	CARBON	1K	5%	1/4W F		The components		Les compo			
R115	1-247-887-00		220K	5%	1/4W		mark $ riangle$ or dotted		une marqu		critique	s
							⚠ are critical for		pour la séc		nc= :::	
							Replace only wit specified.	n part number	Ne les rem pièce porta			
						L	specified.		hiere houg	in io Hulliel	o specilie	•

SA-VE702/VE705/WMS7/SS-MS7 Ver 1.1 2002.10

POWER SWITCH

Ref. No.	Part No. 1-673-147-11	Description POWER BOARD			<u>Remarks</u>	Ref. No.	Part No.	Description MISCELLANEOUS	<u>Remarks</u>
		< CAPACITOR >				14	1-824-346-11	WIRE,FLAT TYPE 5P	
C401 C402	1-104-664-11 1-137-372-11	ELECT	47uF 0.022uF	20% 5%	25V 50V		1-769-744-11 1-783-531-11 1-569-008-21	CORD, POWER (AEP,G,UK,MY,SP) CORD, POWER (US,CND) ADAPTOR, CONVERSION 2P (SP)	ша
		< CONNECTOR >				1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		ADAPTOR, CONVERSION PLUG 3P (uk)
* CN401	1-770-318-11	PIN, CONNECTOR	R 7P			112 SP1 SP101	1-529-513-11	TERMINAL, SPEAKER SPEAKER SPEAKER (2.5cm)	
		< TRANSISTOR >	•			SP102 SP103	1-529-290-11	SPEAKER (5cm) SPEAKER (5cm)	
Q401 Q402 Q403 Q404		IC MN2488-0PY- IC MP1620-0PY-	2SC3623 <i>i</i> M	ATP-LK		⚠ T501 ⚠ T501 ⚠ T601 ⚠ T601	1-433-726-11 1-433-728-12 1-433-731-11 1-433-732-11	TRANSFORMER, POWER (US,CND) TRANSFORMER, POWER (AEP,G,UK, TRANSFORMER, POWER (US,CND) TRANSFORMER, POWER (AEP,G,UK,	MY,SP)
		< RESISTOR >				*******	is also also also also also also also als	***********************	
R401 R402 R403	1-249-421-11 1-249-437-11 1-249-414-11	CARBON	2.2K 47K 560	5% 5% 5%	1/4W F 1/4W 1/4W F			ACCESSORIES & PACKING MATERIA	
⚠ R404 ⚠ R405	1-249-408-11 1-249-408-11	CARBON	180 180	5% 5%	1/4W F 1/4W F			CORD, CONNECTION (PIN-PIN) CORD, SPEAKER (10m)(VE705) CORD, SPEAKER (2.5m)	
⚠ R406 ⚠ R407 ⚠ R408	1-217-151-00 1-217-151-00 1-249-393-11	METAL	0.22 0.22 10	10% 10% 5%	2W 2W 1/4W F			MANUAL, INSTRUCTION (ENGLISH,I MANUAL, INSTRUCTION (GERMAN,SPANISH,DUTCH,SWEDIS	,
******	*******	******	*******	******	*****			PORTUGUESE, POLISH, RUSSIA FINNISH, CHINESE) (AEP, G	AN,DANISH,
	1-674-330-11	POWER SWITCH				*	4-985-459-01	SCREW (5 \times 18), HEXAGON SOCKET WRENCH, HEXAGON SHAFT	,
		< SWITCH >					X-4952-023-1	FRAME ASSY, GRILLE STAND (V) ASSY STAND (H) ASSY (VE705)	
 ∆ S1	1-554-920-11	SWITCH, PUSH (AC POWER	, ,	/STANDBY)	*******		************	*****
				(UIV)	STAINDBY)			******	
		< CONNECTOR >						HARDWARE LIST ************	
CN1 ******		PIN, CONNECTOR		*****	*****	#1	7-685-664-79	SCREW +P 4 × 20 TYPE1	
						#2	7-685-165-01	SCREW +PTP 4 × 25 TYPE1	
						#3 #4		SCREW +P 3 × 6 TYPE2 SLIT SCREW +P 3 × 6	
						#5		SCREW +P 3 × 8 TYPE2 SLIT	
						#6	7-685-648-79	SCREW +P 3 × 12 TYPE2 NON-SLIT	
						#7		SCREW +P 3 × 10 TYPE2 NON-SLIT	
						#8 #9		SCREW +BVTP 4×10 TYPE2 N-S NUT, PUSH 1.5	
						_			

The components identified by mark \triangle or dotted line with mark \triangle are critical for safety. Replace only with part number specified.

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SA-VE702/VE705/WMS7/SS-MS7

SONY®

SERVICE MANUAL

US Model Canadian Model AEP Model UK Model E Model

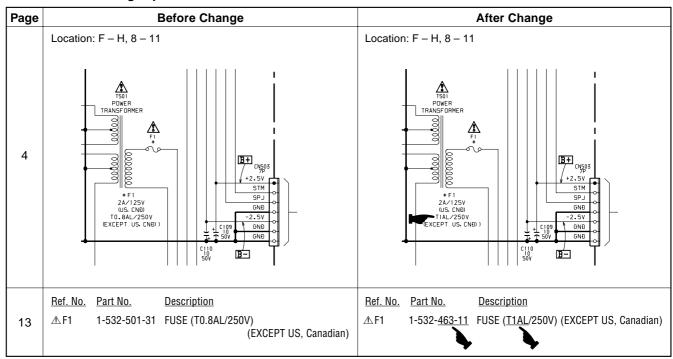
SUPPLEMENT-1

File this supplement with the service manual.

Subject: Change of the Fuse

(ENG-00001)

: Indicates changed portion.



The components identified by mark \triangle or dotted line with mark \triangle are critical for safety. Replace only with part number specified.

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REVISION HISTORY

Clicking the version allows you to jump to the revised page. Also, clicking the version at the upper right on the revised page allows you to jump to the next revised page.

Ver.	Date	Description of Revision	
1.0	1999.07	New	
	2000.11	Suppliment-1	(ENG-00001)
1.1	2002.10	Addition of Ref.No 14	(SPM-02078)